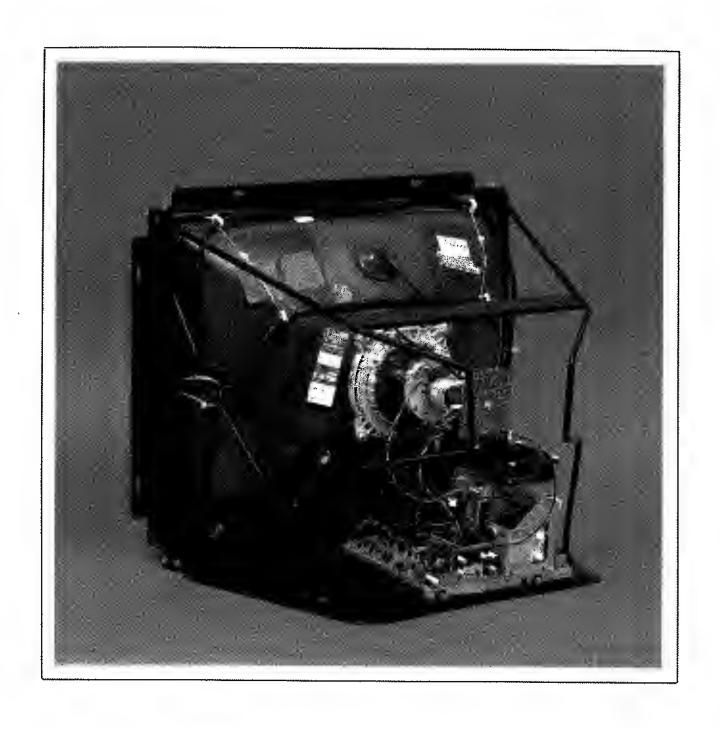


HANTAREX

ELECTRONIC SYSTEMS

MONITORS MTC 9110 25" 28"

- MANUALE DI SERVIZIO
- SERVICE MANUAL
- HANDBUCH
- MANUAL DE SERVICIO
- MODE D'EMPLOI



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ENGLISH

DETAILS AND INOVATIONS OF THE MTC 9110 - 25"-28"

- 1) The MTC 9110 monitor has been designed for maximum versatility, so allowing it to be used with almost any logic board.
- 2) The 'monolithic' construction, using a single printed circuit board, makes maximum use of the automatic insertion of components, which, being free of human error, guarantees a high level of production uniformity coupled with a high level of reliability.
- 3) Completely new mechanical design with the specific object of making the unit extremely resistant to impact and vibration during transportation.
- 4) Use of two connectors (CL and CM on the printed circuit board) for the deflexion unit with cross-over wiring which permits easy inversion and reversal of the image often an indispensable feature.
- 5) The electronics for the 25"-28"/110° incorporates a thermostat mounted on the heat sink (on the side of TR BU 508) which guarantees an exceptionally high degree of product safety and reliability. The thermostat comes into operation if its temperature reaches 75-80°, interrupting the 130 V d.c. supply so bringing the fault to the attention of the operator. This could happen if, for example, the ventilator failed, or the monitor were used in conditions of extreme ambient temperature.
- 6) All the controls which affect the display (horizontal and vertical frequency, horizontal and vertical amplitude, horizontal phase and vertical shift) are mounted on a small separate p.c.b. which is normally plugged into a connector on the main board, but may be used in conjunction with a 1.5 metre long extension cable that is available on request. This allows the control card to be mounted in a specially moulded mounting bracket in a position where the operator can easily adjust the monitor while directly viewing the image.
- 7) The video input is fed via a precision three-gang potentiometer permitting acceptance of input signals in the range 1 to 5 V p.p. without creating changes in colour balance.
- 8) Utilization of a new integrated circuit for vertical deflexion (TDA 1670A) resulting in the short vertical fly-back time of 0.7 ms, so extending the range of logic board usage.
- 9) Incorporation of a new integrated circuit in the horizontal sync. circuitry. This I.C. guarantees a positive protection against x-ray radiation and conforms with the principal international public health regulations, such as F.D.A. Federal Drug Administration.

WARNING

1) SUPPLY

The input supply of the monitor (128 V a.c.) must be fed via a mains isolating transformer.

2) EARTHING

The chassis and the heat sinks are connected to earth. To measure voltages and to inspect waveforms, connect the negative terminals of instruments to the chassis.

3) X-RAYS

The monitor has been designed to minimize x-ray radiation. Furthermore, a special safety circuit comes into operation in the event of failure to limit radiation to below 0.5 mR/h.

4) E.H.T.

Dangerously high voltages are present inside the monitor, and for safe operation it is imperative to follow all safety instructions and warnings.

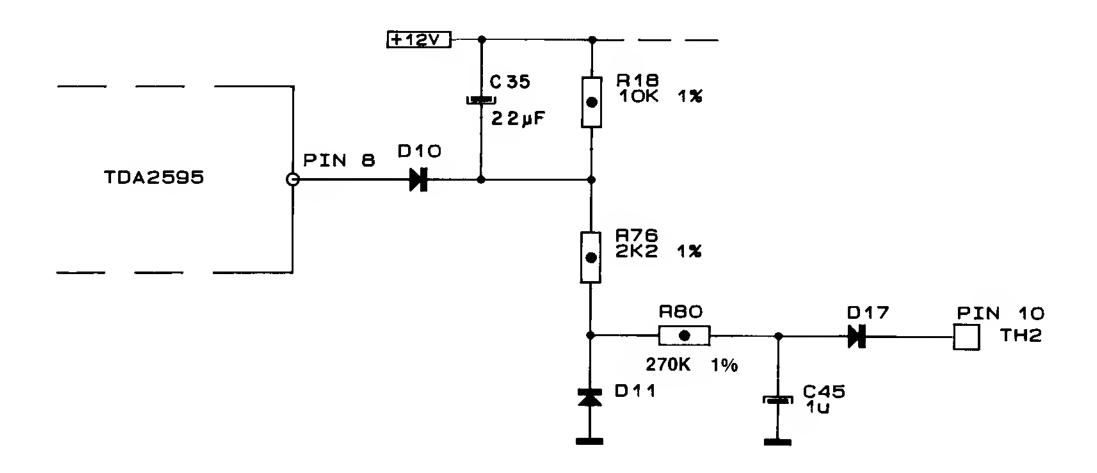
5) C.R.T.

The cathode-ray tube is a high vacuum device and its surfaces are subject to high external pressure. It is therefore necessary to handle the tube with care and to avoid impact which could cause implosion. It follows that personnel handling cathode-ray tubes during installation or during replacement, should wear thick gloves and protective clothing to protect against possible flying glass splinters.

6) WEATHER PROTECTION

To avoid the possibility of electric discharge, do not expose the monitor to rain or excessive humidity.

PROTECTION AGAINST X-RAY RADIATION



(D.H.H.S. accession n. 8720899-05)

The MTC 9110 monitor contains an x-ray protection circuit. A reference voltage is generated from the E.H.T. transformer and is fed via a resistive divider to pin 8 of I.C. TDA 2595.

The voltage appearing at pin 8 is compared with an accurate reference voltage within the I.C., and if the E.H.T. exceeds 30 kV the voltage at pin 8 operates a trigger circuit which inhibits the oscillator and hence the generation of the E.H.T.

The circuit continues to block the oscillator until the cause of the failure has been repaired, and can only be reset by completely switching-off the monitor and switching-on again.

TECHNICAL CHARACTERISTICS

1) SUPPLY

128 V a.c. + 10 — 10%, 50/60 Hz

The supply to the monitor must be via an isolating transformer with the following characteristics: primary 120 V a.c. (USA) 220/240 V a.c., secondary 128 V a.c. 150 W.

2) POWER CONSUMPTION

100 W max.

3) DEGAUSSING

100 ÷ 264 V a.c. automatic.

To change to manually controlled degaussing, remove bridge P34 and insert a twin cable of the desired length into connector CD terminated in a push-button switch, enabling degaussing to be effected at any time.

4) VIDEO INPUT SIGNALS

RGB positive-going with an input impedance of 2.2 kOhm. Input sensitivity from 1 to 5 V p.p. Input connexions as shown on page 37.

For negative-going input signals refer to the description of the «Video Invertor» on page 39.

5) VIDEO PASS BAND

-3 dB at 12 MHz

6) HORIZONTAL BLANKING

12 us

7) VERTICAL BLANKING

1 ms

8) SYNC. SIGNALS

Horizontal and vertical, positive or negative, composite or separate. Input impedance 2.2 kOhm. Input level between 1.5 and 5 V p.p. Input connexions as shown on page 37.

Selection of positive or negative input is made by switch SW4 (see page 37).

9) SCANNING FREQUENCIES

Horizontal 15.625 ± 0.5 kHz: adjustable.

Vertical 45-65 Hz: adjustable.

10) CONTROLS

Contrast, brightness, focus, horizontal frequency, horizontal phase, horizontal amplitude, horizontal linearity, vertical frequency, vertical shift and vertical amplitude. For further details see page 37.

INSTALLATION AND SETTING-UP INSTRUCTIONS

1) SUPPLY

Check that the h.t. line voltage of the monitor at test point TP10 is 130 V d.c. ± 3%.

2) HORIZONTAL OSCILLATOR

Remove the incoming sync. signal (for which one may use SW4) and turn RV5 to obtain a stationary image. Reconnect the sync. input signal.

3) VERTICAL OSCILLATOR

Adjust RV1 to obtain a slow roll-over of the image in a downward direction. Turn back until the image locks.

4) FEED VOLTAGE TO VERTICAL DEFLEXION CIRCUIT

Check that the voltage at TP13 is 26 V d.c. ± 5%. See page 35.

5) FEED VOLTAGE TO VIDEO AMPLIFIER

Check that the voltage at TP1 is 24 V d.c. ± 5%. See page 35.

6) FEED VOLTAGE TO VIDEO OUTPUT AMPLIFIER

Check that the voltage at TP14 is 200 V d.c. ± 5%. See page 35.

7) ADJUSTMENT OF BRIDGE COIL

Bridge Coil B3 is adjusted on the production line, but should it become necessary to re-adjust, the following procedure should be adopted:

- a) Adjust RV4 on board CG for minimum horizontal amplitude.
- b) Adjust the ferrite core of B3 for minimum horizontal amplitude.
- c) Re-adjust RV4 to obtain the desired amplitude.

8) ADJUSTMENT OF EAST/WEST CIRCUIT

Adjust pre-set resistor RV401 on module KK (see page 37) to obtain the best vertical geometry.

9) ADJUSTMENT OF GAIN OF RGB VIDEO OUTPUT STAGES

Having inserted RGB signals of equal amplitude to the inputs, turn the blue gain control RV206, located on the c.r.t. neck board ZG, to its mid-position and adjust the Contrast Control P1 so that the video signal measured with an oscilloscope at the blue cathode is 100 V p.p. Adjust the signals at the cathodes of the red and green guns to the same value by adjustment of RV202 and RV201. See page 37.

10) ADJUSTMENT OF «WHITE»

- a) Remove the video input signal.
- b) Turn RV7 on the c.r.t. grid 1, to maximum brightness.
- c) Turn the black level controls situated on the c.r.t. neck board, RV203 red, RV204 green and RV205 blue, to minimum (clockwise).
- d) Reduce the brightness by adjusting the voltage on grid 2 by means of the control situated on the line output transformer TH2 so that the dominant colour is only just visible, and then adjust the black level controls to obtain the best white possible.
- e) The G2 «Screen» potentiometer functions as the brightness control.

11) FOCUS

Adjust the focus control (FOCUS situated on the line output transformer TH2) using a dot pattern signal, with medium brightness, to give the best focus obtainable.

12) HORIZONTAL LINEARITY

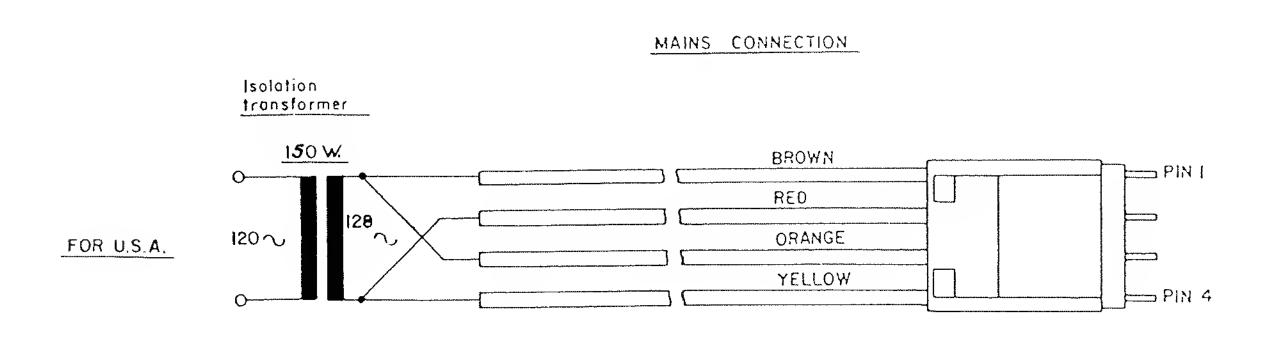
Using a grid pattern signal, adjust for the last square on the right to be equal in size to the first square on the left.

OPERATING INSTRUCTIONS

- 1) Insert the supply cable to the power input connector CC. See page 37.
- 2) Insert the signal and sync. cable to the input connector CA. See page 37.
- 3) Set sync. selector switch SW4 to positive or negative according to the type of input signal. so as to obtain a locked image horizontally and vertically. See page 37.
- 4) Next adjust vertical amplitude, vertical frequency, horizontal amplitude, horizontal phase, vertical shift, horizontal frequency, East-West, brightness and contrast to match the applied signal. See page 37.

Finally it may be necessary to trim to the colour and white adjustments. See para. 9 and 10 page 10.

MONITOR POWER INPUT CONNEXION SCHEMATIC (U.S.A. ONLY)



REMOTE CONTROL

The following controls are all mounted on a small printed circuit board CG: vertical frequency, vertical amplitude, vertical shift, horizontal frequency, horizontal phase, horizontal amplitude. The board is fitted with a socket connector which is plugged into a mating plug connector CF on the main board, and may be removed and re-connected via a 1.5 metre cable (available on request) enabling the operator to adjust all those controls from the front of the monitor.

The cable and the special plastic support frame for remotely mounting the control board can be ordered by quoting part no. 62008440 Remote Control Assembly.



PARTS LIST

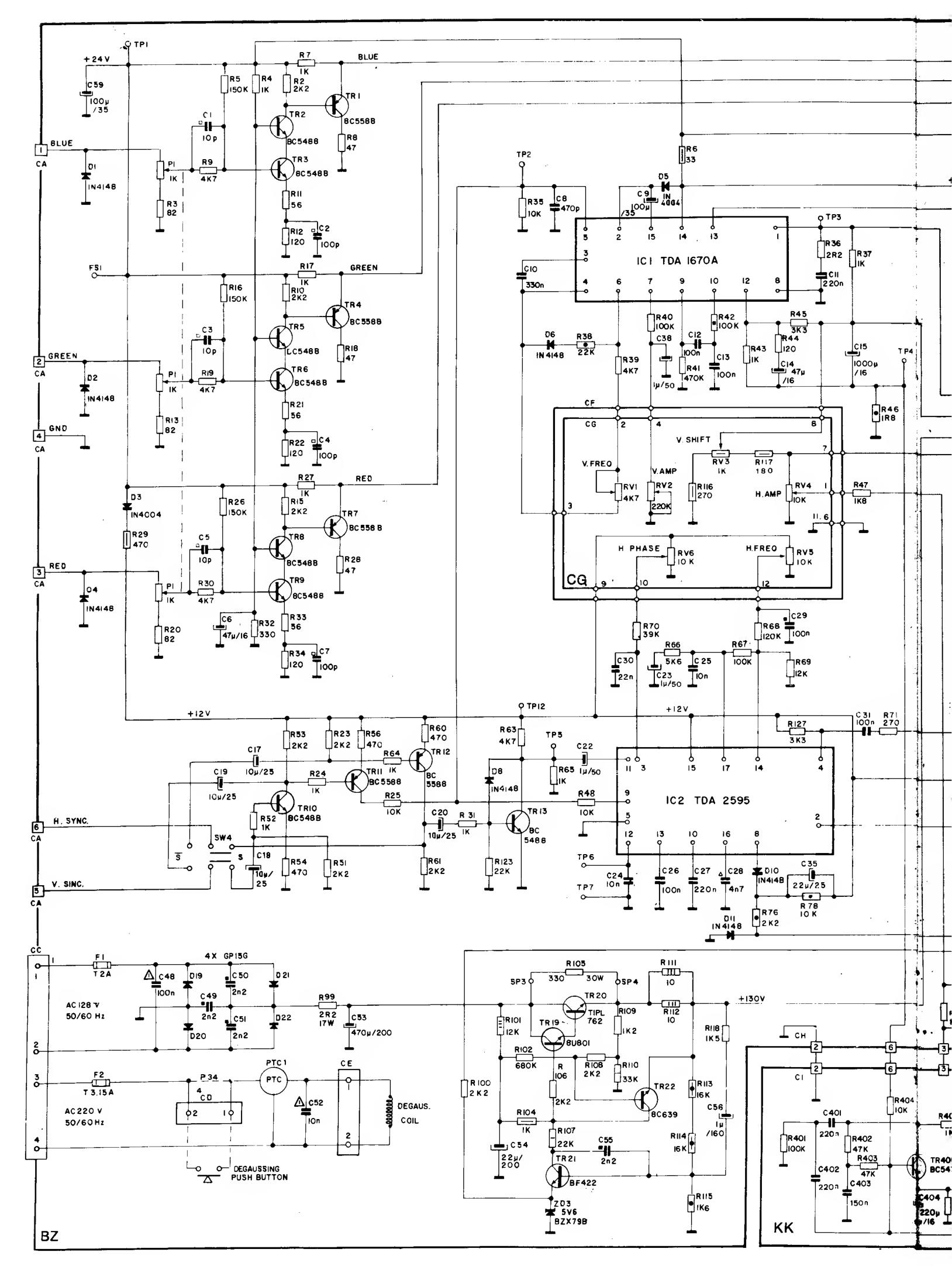
| DDE | B. ASSEMBLY 25"-28"/110° DESCRIPTION | REF NO. | O.TY | 21232700 21233300 21234700 | CARBON RESISTOR 270E 5% 1/4W CARBON RESISTOR 330E 5% 1/4W CARBON RESISTOR 470E 5% 1/4W CARBON RESISTOR 1/2 E6% 1/4/4W | R71 R32 R54-56-60 | 27 12 7 |
|-------------------------|--|--------------------------------------|-------------|----------------------------------|---|------------------------------|------------|
| | | | | 21241000 21241000 | CARBON RESISTOR 1K 5% 1/4W CARBON RESISTOR 1K 5% 1/4W | R31-64-24-4-52- R37-65-43 | -27-17-7 |
| 110300 | ZENER DIODE 1.3 W ZY 100 | ZD2 D27 | 1 | 21241200 | CARBON RESISTOR 1.2K 5% 1/4W | R109 | |
| 150150 150170 | DIODE BY 584 (BY 184) DIODE BYV 95/C - 600 | D13 | i | 21241500 21241601 | CARBON RESISTOR 1.5K 5% 1/4W METAL LAYER RES. 1.6K 1% 1/4W | R118 R115 | |
| 150210 | DIORE BY 228 | D12 | i | 21241800 | CARBON RESISTOR 1.8K 5% 1/4W | R47 | |
| 410100 | TRANSISTOR BOX 53 A | TR17 | 1 | 21242200 | CARBON RESISTOR 2.2K 5% 1/4W | R108-51-81-23- | 53-15-10 |
| 430320 | TRANSISTOR BU 508 A | TR15 TR20 | 1 | 21242200 | CARBON RESISTOR 2.2K 5% 1/4W | R83-100-2-106 | |
| 430470 430570 | TRANSISTOR TIPL 762 TRANSISTOR BU 801 | TR19 | i | 21242202 | METAL LAYER RES. 2 2K 1% 1/4W | A76 | |
| 70270 | INTEGRATED CIRCUIT TDA 2595 | IC2 | i | 21242700 21243300 | CARBON RESISTOR 2.7K 5% 1/4W CARBON RESISTOR 3.3K 5% 1/4W | R45 R127 | |
| 70950 | INTEGRATED CIRCUIT TDA 1670A | IC1 | 1 | 21244700 | CARBON RESISTOR 4.7K 5% 1/4W | R9-19-30-63-39 | -96 |
| 000160 | PHILIPS PTC 2322.662.96011 110/220V | PTC1 | 1 | 21245600 | CARBON RESISTOR 5.6K 5% 1/4W | R66 | ** |
| 351601 | METAL FILM RES. 16K 1% 1/2W | R113-114 | 2 | 21246800 | CARBON RESISTOR 8.8K 5% 1/4W | R88-86 | |
| 116800 | METAL OXIDE RESISTOR 6.8E 5% 1W METAL OXIDE RESISTOR 22K 5% 1W | R120 R107 | 1 | 21248200 | CARBON RESISTOR 8.2K 5% 1/4W | R98 | |
| 152200 153300 | METAL OXIDE RESISTOR 33K 5% 1W | A110 | ì | 21251000 | CARBON RESISTOR 10K 5% 1/4W | R35-85-87-25-4 | 8-121 |
| 54700 | METAL OXIDE RESISTOR 47K 5% 1W | R119-72 | 2 | 21251002 21251200 | METAL LAYER RES. 10K 1% 1/4W CARBON RESISTOR 12K 5% 1/4W | R78 R69 | |
| 41001 | METAL OXIDE RESISTOR 1K 5% 2W | R73-82 | 2 | 21251202 | METAL FILM RES. 12K 1% 1/4W | R38 | |
| 21000 | METAL OXIDE RESISTOR 10E 5% 3W | R111-112 | 2 | 21252200 | CARBON RESISTOR 22K 5% 1/4W | R123 | |
| 51200 | METAL OXIDE RESISTOR 12K 5% 3W | R101 | 1 | 21253300 | CARBON RESISTOR 33K 5% 1/4W | R84 | |
| 44700 42200 | METAL OXIDE RESISTOR 4.7K 10% 4W METAL OXIDE RESISTOR 2.2K 5% 5W | R95 R74 | i | 21253900 | CARBON RESISTOR 39K 5% 1/4W | R70 | |
| 14700 | WIREWOUND RESISTOR VERT. 4 7E 5% 9W | R81 | i | 21254700 | CARBON RESISTOR 47K 5% 1/4W | R75-91-1 | |
| 51000 | WIREWOUND RESISTOR 10K 10% 9W | R97 | 1 | 21258201 21261000 | METAL LAYER R. 82K 1% 1/4W CARBON RESISTOR 100K 5% 1/4W | R42 R67 | |
| 12200 | WIREWOUND RESISTOR 2.2E 10% 1ZW | R99 | 1 | 21261700 | CARBON RESISTOR 120K 5% 1/4W | R68-40 | |
| 33300 | AXIAL WIREWOUND RES. 330E 10% 30W | R105 | 1 | 21261500 | CARBON RESISTOR 150K 5% 1/4W | R5-16-26 | |
| 62203 | CARBON TRIMMER 220K HORIZ, PT10V | AV7 | 1 | 21261800 | CARBON RESISTOR 180K 5% 1/4W | R103 | |
| 41009 | POTENTIOMETER 1K 232250590002 RADIAL ELECT. CAPACITOR 1000MF 16V | P1 C15-16 | 2 | 21264700 | CARBON RESISTOR 470K 5% 1/4W | R41-93-92 | |
| 41000 14702 | RADIAL ELECT, CAPACITOR 1000MF 16V | C42 | 1 | 21266800 | CARBON RESISTOR 680K 5% 1/4W | R102 | |
| 41000 | RADIAL ELECT. CAPACITOR 1000MF 35V | C57 | i | 21313901 21323300 | RESISTOR, NON-FLAMMABLE, 3 9E 5% 1/2W CARBON RESISTOR 33E 5% 1/2W | R94 R6 | |
| 22201 | RADIAL ELECT, CAPACITOR 22MF 160V | C34 | i | 21324700 | CARBON RESISTOR 47E 5% 1/2W | R126 | |
| 22200 | RADIAL ELECT, CAPACITOR 22MF 200V | C54 | 1 | 21334700 | CARBON RESISTOR 470E 5% 1/2W | R29 | |
| 34710 | RADIAL ELECT. CAPACITOR 470MF 200V | C53 | 1 | 21341000 | CARBON RESISTOR 1K 5% 1/2W | R104 | |
| 44703 | FILM CAPACITOR 4,7NF 63V 5% | C28 C47 | 1 | 21342200 | CARBON RESISTOR 2.2K 5% 1/2W | F189 | |
| 62200 61010 | FILM CAPACITOR 1.60 220NF 160V 10% FILM CAPACITOR 1.60 100NF 250V 10% | C47 C43 | 1 | 21362700 | CARBON RESISTOR 270K 5% 1/2W | R90 | |
| 64710 | FILM CAPACITOR 1.76 470NF 250V 10% | C37 | i | 21371004 | METAL FILM RESISTOR 1M 5% 1/2W VR 37 MAIN P.C.B. BZ01 | H// | |
| 51000 | FILM CAPACITOR 1.60 10NF 400V 10% | C46 | 1 | 50146210 | MONT F.V.D. MAVI | | |
| 51200 | FILM CAPACITOR 1.73 12NF 630V 10% | C41 | 1 | | | | |
| 46802 | FILM CAPACITOR 1.73 6.8NF 1500V 5% | C40 | 1 | | | | |
| 51002 | FILM CAPACITOR 1.58X10NF 250VCA 20% | C52 C46 | 1 | CET SOCI | KET ASSEMBLY 25"-28" | | code 62010 |
| 01002 43302 | FILM CAPACITOR 1 58X100NF 250VCA 20% FILM CAPACITOR 1.73 3.9NF 1500V 5% | C36 | i | CODE | DESCRIPTION | REF.NO | Code ozorc |
| 22608 | CERAMIC CAPACITOR —20 + 50 2,2NF 500V | C50-51-55-49 | 4 | CODE | DESCRIPTION | HEF.NO | |
| 10590 | DRIVER TRANSFORMER AT4043/01 | TH1 | 1 | 00400110 | TO ANGICTOD DE 450 | TP201.200.202 | |
| 21210 | BRIDGE COIL UTF48 | B3 | 1 | 20420110 21411000 | TRANSISTOR BF 459 METAL OXIDE RES. 1E 5% 1W WK4 | TR201-202-203 R216 | |
| 25170 | LINEARITY COIL UTF67 | B1 | 1 | 21551000 | METAL OXIDE RES. 10K 5% 2W | R205-206-210 | |
| 26030 | TRANSFORMER E.H.T., 1105-E048 | TH2 | 1 | 23034706 | TRIMMER VEHT, REG 470E PT10NH | RV201-202-206 | |
| 00000 | TIME-DELAY FUSE 2 A | F1 F2 | 1 | 23044700 | CARSON TRIMMER HOR, REG. 4.7K | | |
| 00009 00150 | TIME-DELAY FUSE 3,15 A FUSE HOLDER C10 6A 250V | 72 | 2 | | PT10V | RV203-204-205 | |
| 00450 | SWITCH, CHANG, SWITCHCRAFT K\$A2251 | SW4 | 1 | 24921000 | RADIAL ELECT, CAPACITOR 10 MF 250V | C205 | |
| 10061 | FASTON LUG.M TE115 2,8 × 0,8 | SF1 | 1 | 26422640 | CER, CAP, 2.2NF 400VCA 4KUP SOAPSTONE INSULATORS 8 M.M. | C206 | |
| 23352 | AMP CONNECTOR MOD. 1-2 D280609/1 | CD-CE | 2 | 29300010 34010061 | FASTON LUG M.FACO TE115 2.8 × 0.8 | FS201 | |
| 23354 | AMP CONNECTOR MOD. 1-4 D280610/1 | CC CM CA | 1 | 34020590 | SOCKET, HOSIDEN HPS0199-020 | | |
| 23356 | AMP CONNECTOR MOD. 1-8 D280611/1 | CL-CM-CA CH | 3 | 50423440 | HEXAGONAL SHAFT PHILIPS 822241771060 | | |
| 75080 75090 | 5WAY MALE CONN, PRESSAC UTH1859 11WAY MALE CONN, PRESSAC UTH1861 | CF | 1 | 53840180 | SOC. SHIELDING UTH1852 | | |
| 75090 00011 | SPRING x TO220 UTH38 | 7- | 4 | 61002270 | SOC.WIRING ASS. UTC241 | | |
| 00100 | SPRING × RESISTOR 30W UTH635 | | 2 | 61005060 | SOC SIGNALS WIRING MTC9000 UTC527 | 0201 | |
| 10140 | RESISTOR BRACKET UTH601 | | 4 | 24522209 26322709 | RADIAL ELECT. CAPACITOR 22uF 35V SM CER CAP 10% 50V 270PF | C201 | |
| 16101 | HEATSINK UTH1569 | | 1 | 20322709 | ATEHE40SKYB270K | C202-203-204 | |
| 16111 | MAINFRAME UTH1129 | | 1 | 21212200 | CARBON RESISTOR 2,2E 5% 1/4W | R201 | |
| 20225 | SPINDLE, CONTRAST CONTROL KL1-7503 | | 1 2 | 21238200 | CARBON RESISTOR 820E 5% 1/4W | R203-207-209 | |
| 24220 24230 | TO3 INSULATOR UTH1986 TO220 ISULATOR UTH1987 | | 1 | 21244700 | CARBON RESISTOR 4,7K 5% 1/4W | R204-208-211 | |
| 24230 24310 | INTEGRATED CIRCUIT (NSUL, UTH2047 | | i | 21341000 | CARBON RESISTOR 1K 5% 1/2W | R213-214-215 | |
| 2464D | MAIN PROTECTION UTH2044 | | 1 | 21342200 | CARBON RESISTOR 2,2K 5% 1/2W CARBON RESISTOR 10K 5% 1/2W | R217 R218 | |
| 00469 | TRANSISTOR BC639 | TR14-18-22 | 3 | 21351000 50144841 | CRT SOCKET P.C.B. ZG 06 | 11210 | |
| 01029 | TRANSISTOR BC548 B | TR2-3-5-6-8-9-10-13 | 8 | 30177041 | 211, 3201211101212000 | | |
| 01039 | TRANSISTOR BC 558 B | TR1-4-7-11-12-16 TR21 | 6 1 | l | | | |
| 20219 24709 | TRANSISTOR BF 422 RADIAL ELECT, CAP, 47MF 16V SM | C6-14 | | CONTROL | S P.C.B. ASSEMBLY 25"-28" | | code 62010 |
| 21009 | RADIAL ELECT, CAP, 47MF 16V SM | C20-18-17-19-58 | 2 5 | CODE | DESCRIPTION | REF NO. | Code 62010 |
| 22209 | RADIAL ELECT CAR 22ME 25V SM | C35 | 1 | | OCCORIE HON | TIET NO. | |
| 31009 | RADIAL ELECT. CAP 100MF 35V SM | C9-59 | 2 | 91229700 | CARRON RESISTAD 270E 504 170M | R116 | |
| 11009 | RADIAL ELECT, CAP, 1MF 63V SM | C23-38-22 | 3 | 21332700 21331800 | CARSON RESISTOR 270E 5% 1/2W CARSON RESISTOR 180E 5% 1/2W | R117 | |
| 11009 | RADIAL ELECT, CAP, 1MF 160V SM | C56 | 1 | 23041009 | SEALED TRIMMER 1K HORIZ REG. PT15NV | | |
| 11009 | RADIAL ELECT, CAP 1MF 200V FILM CAPACITOR 1.85 100NF 63V 5% | C45 C12-13 | 2 | 23044710 | SEALED TRIMMER 4,7K HORIZ-REG-PT10NV | RV1 | |
| 61019 63319 | FILM CAPACITOR 1.85 100NF 63V 5% | C12-13 | 1 | 23051013 | SEALED TRIMMER 10K HORIZ REG PT10NV | RV4-5-6 | |
| 44719 | MYLARD CAP, 4.7NF 100V 10% | C32 | 1 | 23062207 | SEALED TRIMMER 220K HORIZ REG.PT10NV | RV2 | |
| 51029 | MYLARD CAP. 10NF 100V 10% | C24-25 | 2 | 34075095 | 11 WAYFEMALE CONN, PRESSAC | CC | |
| 52209 | FILM CAPACITOR 1.85 22NF 100V 10% | C30 | 1 | 34075290 | UTH1862 POLARIZATION KEY 12/3768 | CG | |
| 51009 | MYLARD CAP. 100NF 100V 10% | C31-26 | 2 | 50144830 | CONTROLS P.C.B. CG | | |
| 62219 | FILM CAP. 22.365 220NF 100V 10% CER CAP,NP0 50V 15PF RTHE40SKCH150J | C27-33-11 C1-3-5 | 3 | 50423430 | SHAFT PT15 | | |
| 15109 10109 | CER.CAP.NP0 50V 100PF RTHE40SKCH101J | | 3 | 50423440 | HEXAGONAL SHAFT PHILIPS 822241771060 | | |
| 47109 | CER.CAP.10% 50V470PF RTHE40SKYB471K | | 1 | 1 | | | |
| 10609 | CER.CAP20 + 80 50V 100NF | _ | | | | | |
| | RTD\$K115KYF104Z | C29 | 1 | POWER IN | WIRING ASSEMBLY 25"-28" | | code 61000 |
| 00000 | DIODE 1N 4148 | D4-2-1-8-10-6-25-26-11 | 9 | CODE | DESCRIPTION | | C |
| 10101 | ZENER DIODE 1.3 W ZPY 12 2% | ZD1 ZD3 | 1 | | | | |
| 10800 | ZENER DIODE 2% BZX 79 B5V6 DIODE BAV 20 | ZD3 D16-28 | 1 2 | 34020002 | AMP FEMALE LUGS 280702/1 | | |
| 30060 50004 | DIQUE 1N 4004 | D3-5-24 | 3 | 34023404 | AMP CONNECTOR 4 F 280591 | | |
| 50460 | DIODE BYD 33G | D23-17-15-18-14 | 5 | | | | |
| | DIODE GP 15 G | D21-22-19-20 | 4 | | | | |
| 50480 | METAL LAYER RES. 1.6E 1% 1/4W | R46 | 1 | SIGNALS | INPUT WIRING ASSY 25"-28" | | code 61000 |
| | | R36 | 1 | CODE | DESCRIPTION | | 0000 |
| 50480 11801 12200 | CARBON RESISTOR 2.2E 5% 1/4W | 20 40 00 EC | | | | | |
| 11801 12200 24700 | CARBON RESISTOR 47E 5% 1/4W | R8-16-28-79 | 4 | CODE | 5200.11 1.511 | | |
| 11801 | | R8-16-28-79 R11-21-33 R3-13-20 | 4 3 3 | 34020002 | AMP FEMALE LUGS 280702/1 | | |

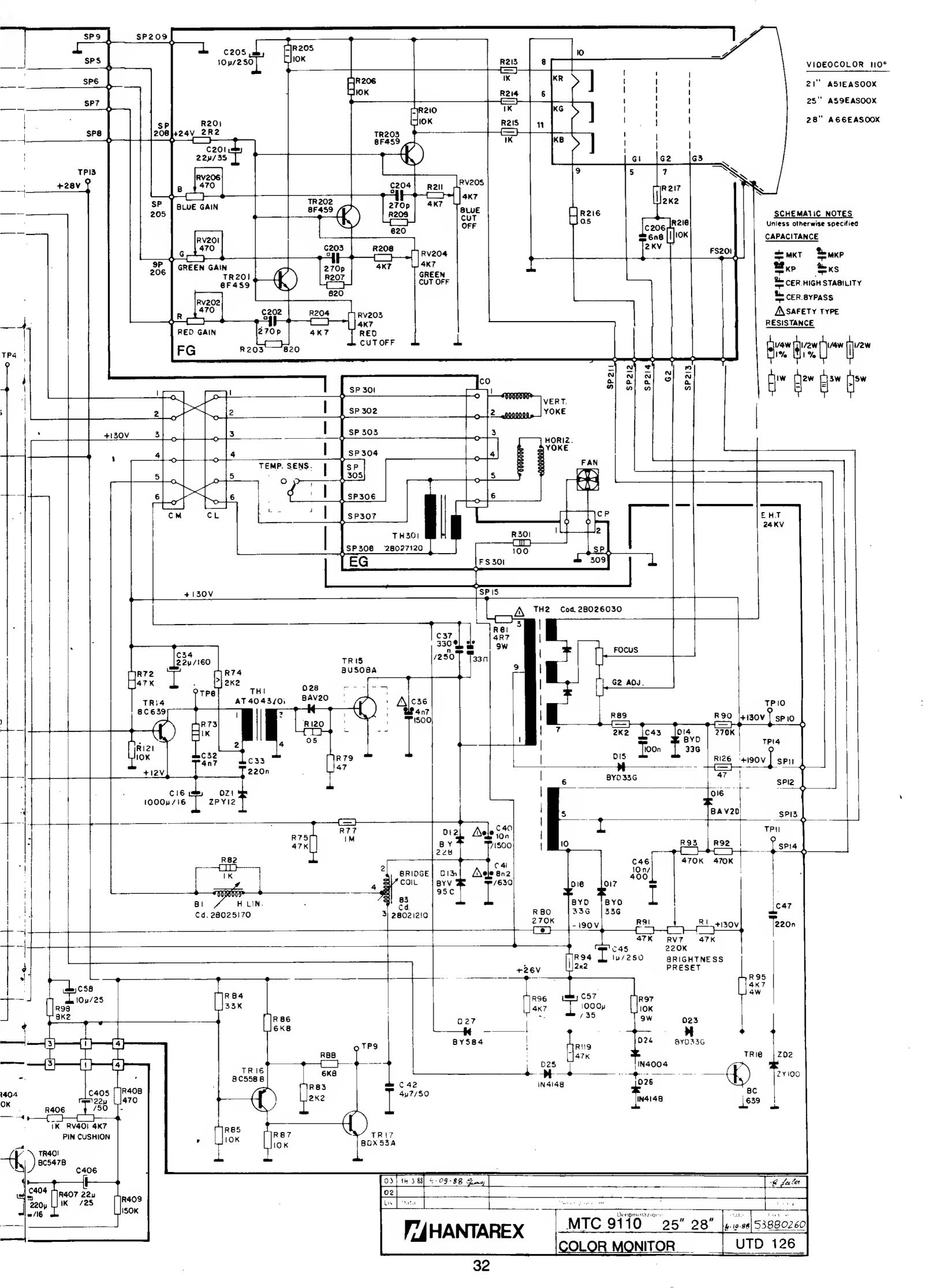
| <u> </u> | | | |
|--|---|---|--|
| C.R.T. ASS | SEMBLY 25" 110° DESCRIPTION | | Q.TY |
| 20830310 43000030 50420070 61007470 50420080 | C.R.T. 25'' VIDEOCOLOR A59EAS00X01 SPRING, C.R.T. EARTHING UTH 634 COIL MOUNTING 20-0539-1150 GROUNDING BRAIDED WIRE ASSY 25'' U'COIL SUPPORT 20-0791-1150 | TC 794 | 1 2 2 1 4 |
| C.R.T. ASS | SEMBLY 28" 110° DESCRIPTION | | Q.TY |
| 20830300 4300030 50420070 61007570 50420080 | C.R.T. 28" S.R. VIDEOCOLOR A66EAS00X0 SPRING, C.R.T. EARTHING UTH 634 COIL MOUNTING 20-0539-1150 C.R.T. EARTHING CABLE 28" UTC 800 COIL SUPPORT 20-0791-1150 | 01 | 1 2 2 1 4 |
| YOKE WIF | RING ASSEMBLY 25" 28" DESCRIPTION | | code 61001070 Q.TY |
| 34020002 34023406 | AMP. FEMALE LUGS 280702/1 AMP. CONNECTOR 6 FEM. 280592 | | 6 |
| DEGAUSS | ING COIL ASSY 25" | | code 61007430 |
| DEGAUSS | ING COIL ASSY 28" | | code 61007560 |
| C.R.T. MAI | INFRAME ASSY 25" 110° DESCRIPTION | | Q.TY |
| 40213507 40942095 40963120 42000010 50118790 50118800 50118810 50118820 50118830 | SCREW M 4×7 036192 SELF TAPPING-SCREW 4.2×9.5 SELF TAPPING-SCREW 6.3×20 AB ZN WASHER UNI 6593-69 D18 d6.6 SP2 LEFT LEG 25" UTH 2885 RIGHT LEG 25" UTH 2886 BASE PLATE 25" UTH 2887 UPPER CROSS MEMBER 25" UTH 2888 C.R.T. NECK REINFORCING FRAME 25" U | TH 2889 | 6 8 4 1 1 1 |
| C.R.T. MAI | NFRAME ASSY 28" 110° DESCRIPTION | | Q.TY |
| 40213507 40942095 40963120 42000010 50118740 50118750 50118760 50118770 50118780 | SCREW M 4×7 036192 SELF TAPPING-SCREW 4.2×9.5 SELF TAPPING-SCREW 6.3×20 AB ZN WASHER UNI 6593-69 D18 d.6.6 SP2 LEFT LEG 28" UTH 2880 RIGHT LEG 28" UTH 2881 BASE PLATE 28" UTH 2882 C.R.T. NECK REINFORCING FRAME 28" UTH 2884 | TH 2883 | 6 8 4 1 1 1 1 |
| PACKING A | ASSEMBLY 25" 110° DESCRIPTION | | Q.TY |
| 52826440 52826450 52826460 | SIDE PACKING BOARD 25" UTH 2903 BASE PLATE 25" UTH 2904 PACKING BOX 25" UTH 2905 | | 2 2 1 |
| PACKING A | ASSEMBLY 28" 110° DESCRIPTION | | Q.TY |
| 52826470 52826480 52826490 | SIDE PACKING BOARD 28" UTH 2906 BASE PLATE 28" UTH 2907 PACKING BOX 28" UTH 2908 | | 2 2 1 |
| EAST-WES | T P.C.B. ASSEMBLY 25" 28" DESCRIPTION | REF. No. | code 62010220 O.TY |
| 23044710 34075085 50423440 21234700 21241000 21251000 21254700 21261000 21261500 50144820 20400429 24332209 24422209 24522209 25161509 | SEALED TRIMMER 4.7K HORIZ.REG.PT10NV 5 WAY FEMALE CONN.PRESSAC.UTH 1860 HEXAGONAL SHAFT PHILIPS 822241771060 CARBON RESISTOR 470E 5% 1/4 W CARBON RESISTOR 1K 5% 1/4 W CARBON RESISTOR 10K 5% 1/4 W CARBON RESISTOR 47K 5% 1/4 W CARBON RESISTOR 100K 5% 1/4 W CARBON RESISTOR 150K 5% 1/4 W CARBON RESISTOR 150K 5% 1/4 W EAST-WEST P.C.B. KK02 TRANSISTOR BC 547 B RADIAL ELECT. CAP. 22MF 16V RADIAL ELECT. CAP. 22MF 25V RADIAL ELECT. CAP. 22MF 35V FILM CAPACITOR 1.85 150NF 63V 10% FILM CAPACITOR 1.85 220NF 100V 10% | RV 401 C1 R 408 R 407-406 R 404 R 402-403 R 401 R 409 TR 401 C 404 C 406 C 405 C 403 C 401-402 | 1 1 1 1 2 1 2 1 1 1 1 1 1 1 |
| 252 62209 | Qui rigit die 1.00 ZZOHI 1004 1070 | _ ,0 : !0£ | |

| VENTILAT | code 62010080 | | |
|--|---|--------------------|----------------------------|
| CODE | Q.TY | | |
| 29030630 | VENTILATOR TD80A4H SINWAN | 1 | |
| 34074242 | PRESSACO CONN. FEMALE (RED) 12/6232 | 1 | |
| 34074250 | PRESSACO LUG 11/6666 | 2 | |
| IMPEDAN | CE ADAPTOR P.C.B. ASSEMBLY 25'' 2 DESCRIPTION | 28'' 110° | code 62010200 |
| CODE | | REF. No. | Q.TY |
| 21631000 28027120 | METAL LAYER RES. 100E 3W DEFL. YOKE MATCHING TRANSFORMER | R 301 | 1 |
| 29300010 | UTF 113 SOAPSTONE INSULATORS 8 M.M. | TH 301 | 1 2 |
| 34010061 34023356 34074232 50146470 61007380 61007400 | FASTON LUG M. FACO TE 115 2.8 × 0.8 AMP. CONN. M1 6 D 280611/1 2 WAY CONN. PRESSACO (RED) M. 253562 IMPEDANCE ADAPTOR P.C.B. 25" EG 03 INPUT P.C.B. CABLE 25" UTC 784 THERMOSTAT CABLE 25" UTC 785 VENTILATOR POWER CABLE 25" UTC 786 | FS 301 CO CP | 1 1 1 1 1 1 |

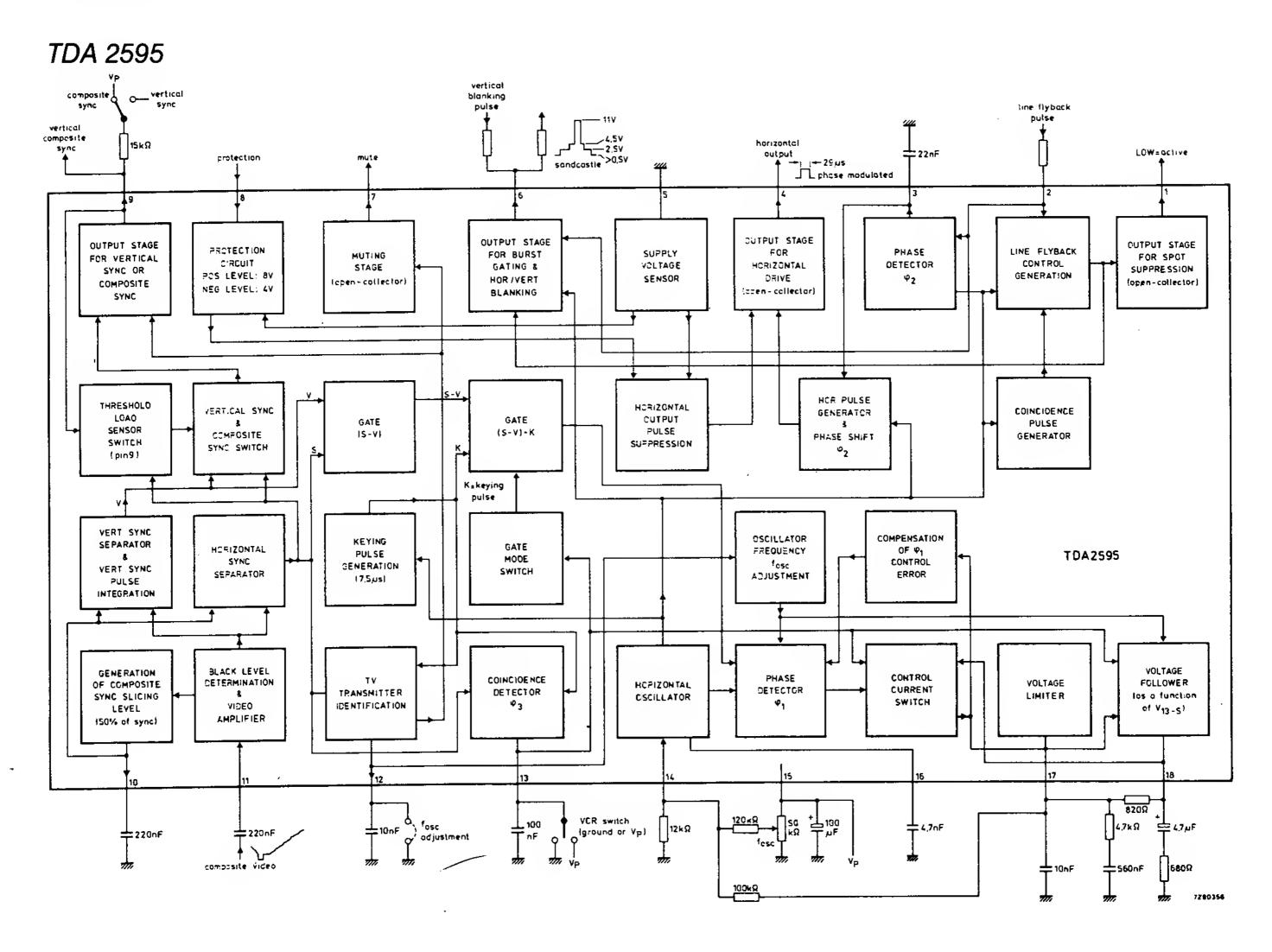
LEGEND

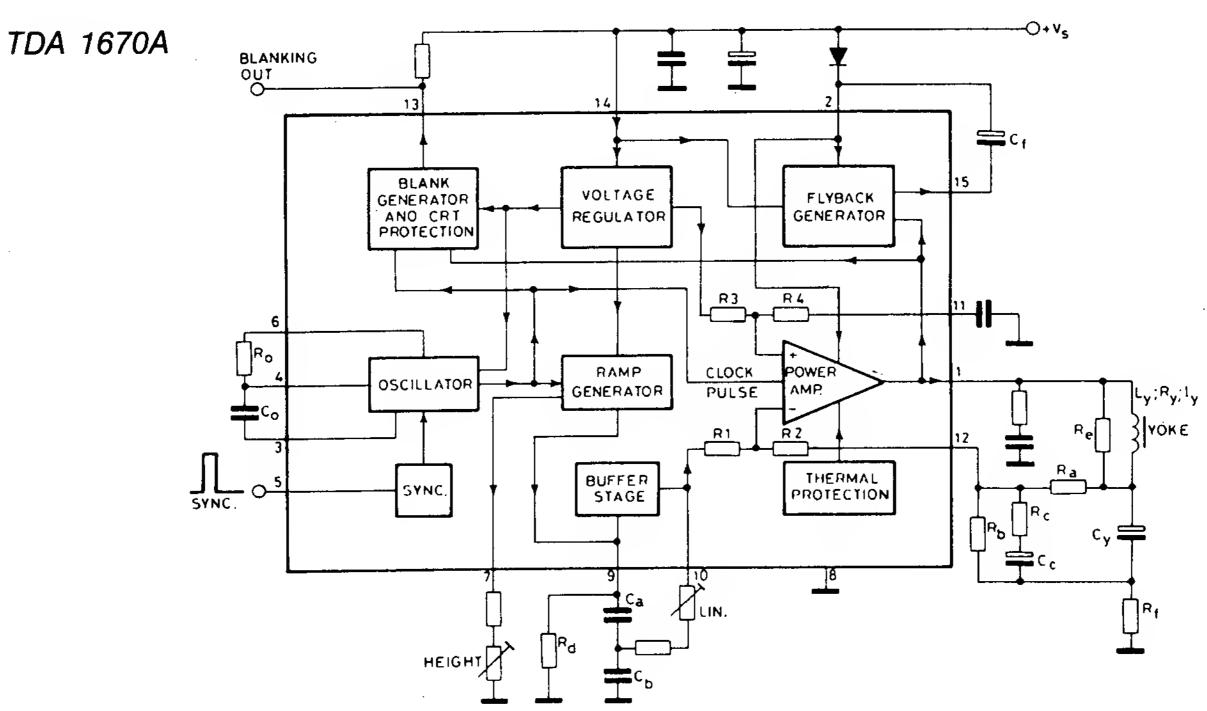
FILM CAPACITOR = CAPACITOR, POLYSTYRENE FILM CAPACITOR 1.60 = CAPACITOR, METALLIZED POLYESTER FILM CAPACITOR 1.76 = CAPACITOR, DOUBLE-METALLIZED POLYPROPOLENE FILM CAPACITOR 1.73 = CAPACITOR, METALLIZED POLYPROPOLENE FILM CAPACITOR 1.58X = CAPACITOR, POLYESTER FILM CAPACITOR 1.85 = CAPACITOR, METALLIZED POLYESTER FILM CAPACITOR 22.365 = CAPACITOR, POLYESTER RADIAL ELECT. CAPACITOR = CAPACITOR, RADIAL ELECTROLYTIC CER.CAP. = CAPACITOR, CERAMIC



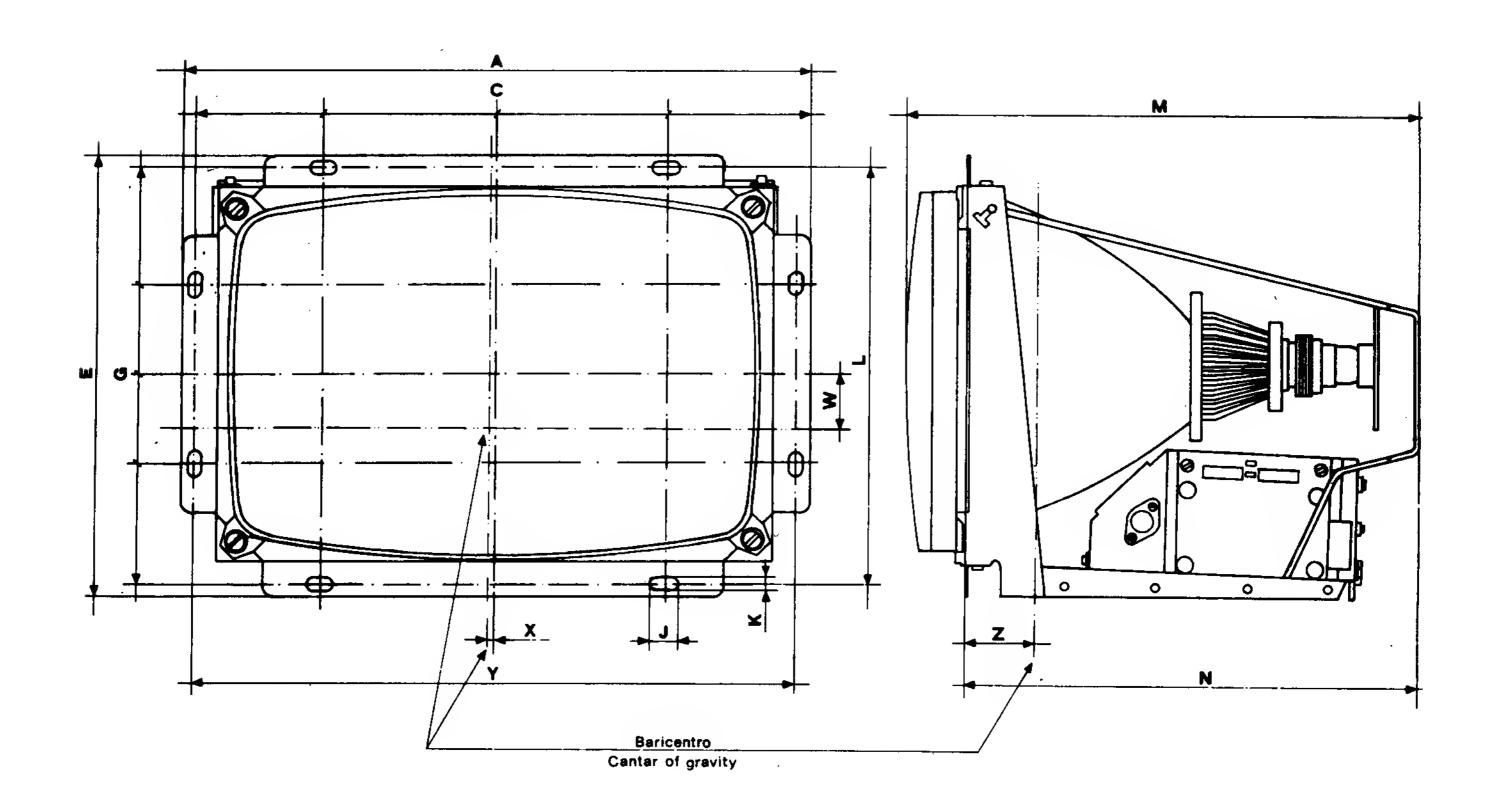


- DIAGRAMMA A BLOCCHI PER CIRCUITO INTEGRATO TDA 2595 E TDA 1670A
- BLOCK DIAGRAM FOR INTEGRATED CIRCUITS TDA 2595 AND TDA 1670A
- BLOCKSCHALTBILD FÜR TDA 2595 UND TDA 1670A
- DIAGRAMA DE BLOQUES DEL CIRCUITO INTEGRADO TDA 2595 E TDA 1670A
- DIAGRAMME FONCTIONNEL POUR CIRCUITS IMPRIMES TDA 2595 ET TDA 1670A



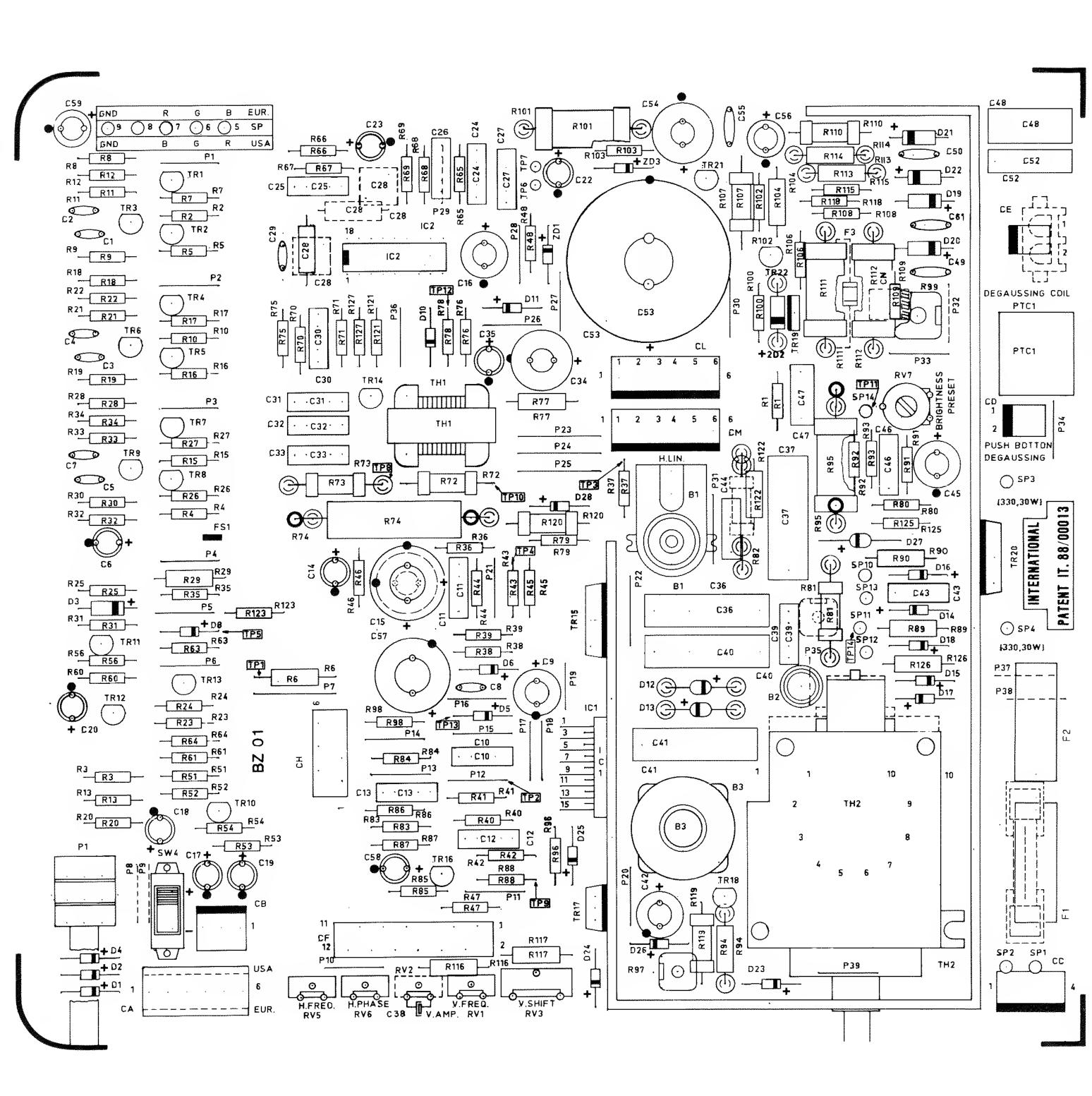


- DATI MECCANICI
- MECHANICAL DATA
- MECHANISCHE ANGABEN
- DATOS MECANICOSDONNEES MECANIQUES

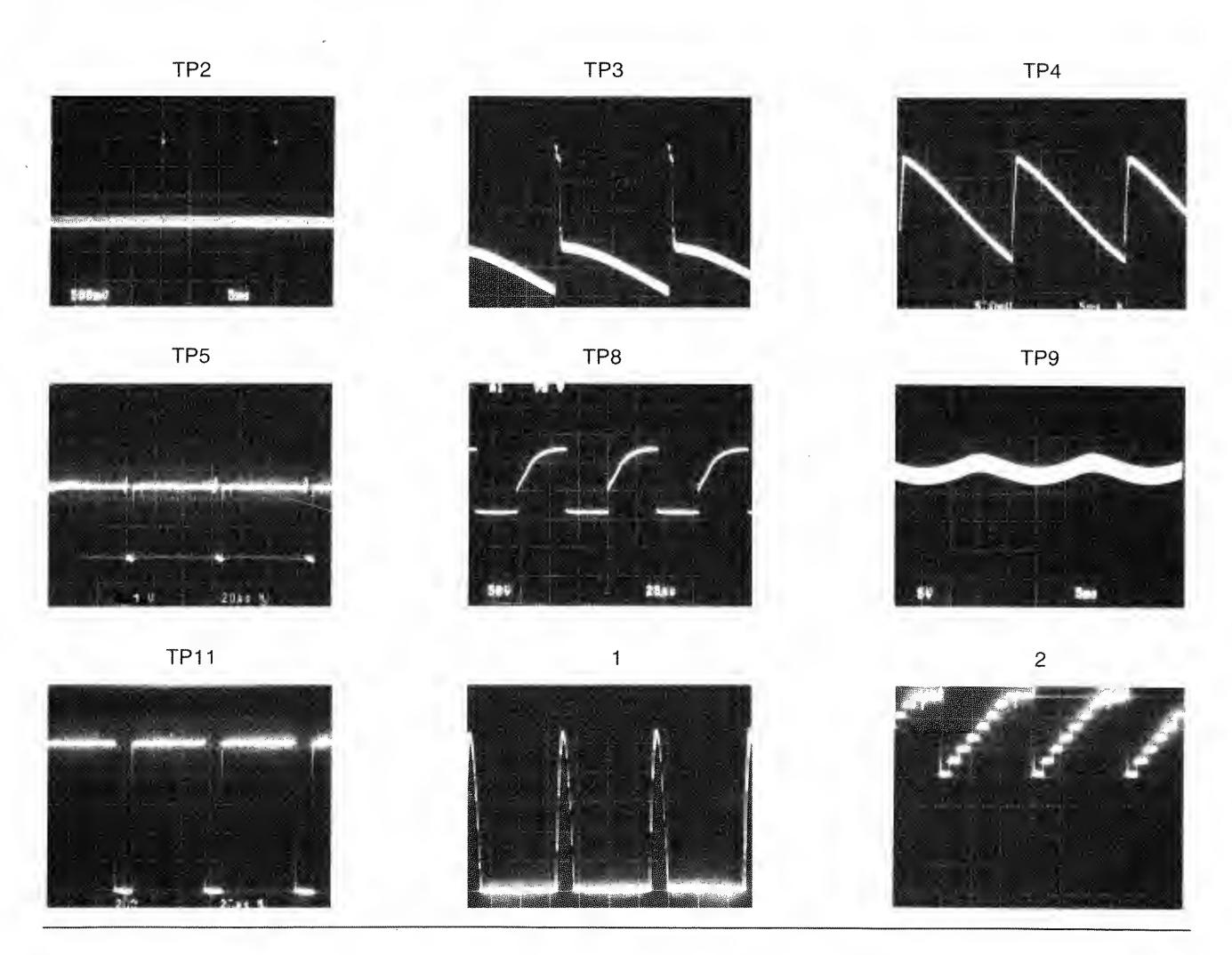


| DIM. | Α | E | G | М | Υ |
|---------|--------|--------|--------|--------|--------|
| 25'' mm | 592 | 480 | 460 | 500 | 572 |
| 28'' mm | 654 | 528 | 508 | 535 | 634 |
| 25" IN. | 23.307 | 18.898 | 18.110 | 19.685 | 22.520 |
| 28" IN. | 25.748 | 20.787 | 20.000 | 21.063 | 24.961 |

- CIRCUITO STAMPATO CON I PUNTI DI TARATURA, TENSIONI E FORME D'ONDA
- PRINTED CIRCUIT BOARD SHOWING TEST POINTS, VOLTAGES AND WAVEFORMS
- HAUPTLEITERPLATINE MIT TEST-PUNKTEN, SOLLSPANNUNGEN UND OSZILLATORDIAGRAMMEN
- CIRCUITO IMPRESO CON EL PUNTO DE MEDIDA, TENSION Y FORMA DE ONDA
- CIRCUIT IMPRIME ET POINT DE REGLAGE, TENSION ET FORME D'ONDE



- T.P. DI CONTROLLO E FORME D'ONDA
- CONTROL TEST POINTS AND WAVEFORMS
- TEST-PUNKTE UND OSZILLATORDIAGRAMME
- PUNTO DE PRUEBA PARA CONTROL Y FORMA DE ONDA
- POINTS DE TEST DE CONTROLE ET FORME D'ONDE



FORME D'ONDA WAVEFORMS

- T.P.2 Sincronismo verticale Vertical sync.
- T.P.3 Pilotaggio deflessione verticale Vertical drive
- T.P.4 Segnale di reazione deflessione verticale Vertical feedback
- T.P.5 Sincronismo composito Composite sync.
- T.P.8 Pilotaggio per transistors finale di riga Horizontal drive
- T.P.9 Correzione est/ovest con modulo KK inserito East/west correction with module KK inserted
- T.P.11 Spegnimento orizzontale e verticale Horizontal and vertical blanking
- 1. Impulso del collettore BU 508 Pulse at collector of BU 508
- 2. Segnale sui catodi finale video RVB Signal at cathodes of RGB video output

TENSIONI SUPPLIES

- T.P.1 24/25 V.d.c. Alimentazione amplificatore video 24/25 V.d.c. Video amplifier supply
- T.P.10 130 V.d.c. ± 2% Alimentazione stabilizzata 130 V.d.c. ± 2% Stabilized supply
- T.P.12 12 V.d.c. Alimentazione sincronismo e oscillatore orizzontale (TDA 2595)

 12 V.d.c. Horizontal sync. and oscillator supply (TDA 2595)
- T.P.13 25/26 V.d.c. Alimentazione verticale 25/26 V.d.c. Vertical supply
- T.P.14 200/210 Alimentazione finale video 200/210 V.d.c. Video output supply

- DIAGRAMMA DELLE CONNESSIONI E REGOLAZIONI DEI TRIMMER
- CONNEXIONS DIAGRAM AND PRE-SET ADJUSTMENTS
- ANSCHLUBPLAN UND JUSTAGE ELEMENTE
- ESQUEMA DEL CONEXIONADO Y REGULACION DE LOS POTENCIOMETROS
- SCHEMA DE CONNEXION ET REGULATION DES TRIMMERS
- 1) FASCIA DI SMAGNETIZZAZIONE
- DEGAUSSING COIL
- BOBINA DESMAGNETIZADORA
- ENTMAGNETISIERUNGSSPULE
- BOBINE DE DEMAGNETISATION
- 2) GIOGO ORIZZONTALE
- HORIZONTAL YOKE
- BOBINA DEFLECTORA HORIZONTAL
- HORIZONTALE ABLEŅKSPULE
- BOBINE DE DEFLEXIÓN HORIZONTALE
- 3) GIOGO VERTICALE
- VERTICAL YOKE
- BOBINA DEFLECTORA VERTICAL
- VERTIKALE ABLENKSPULE
- BOBINE DE DEFLEXION VERTICALE
- 4) GUADAGNO ROSSO
- RED GAIN
- GANANCIA ROJO
- ROT-VERSTÄRKUNGS-REGLER
- GAIN ROUGE
- 5) INTERDIZIONE VERDE
- GREEN CUT-OFF
- VERDE CUT-OFF
- SCHWARZWERT FÜR GRÜN
- SUPPRESSION VERT
- 6) INTERDIZIONE ROSSO
- RED CUT-OFF
- ROJO CUT-OFF
- SCHWARZWERT FÜR ROT
- SUPPRESSION ROUGE
- 7) INTERDIZIONE BLU
- BLUE CUT-OFF
- AZUL CUT-OFFSCHWARZWERT FÜR BLAU
- SUPPRESSION BLEU
- 8) GUADAGNO BLU
- BLUE GAIN
- GANANCIA AZUL
- BLAU-VERSTÄRKUNGS- REGLER
- GAIN BLEU
- 9) G2
- SCREEN
- PANTALLA
- SCHIRMGITTER-REGLER
- ECRAN
- 10)FUOCO
- FOCUSFOCO
- FOCUS
- FOCALISATION
- 11) MASSA CINESCOPIO
- GND PICTURE TUBE
- MASA DEL TUBO
- BILDRÖHRENMASSE
- MASSE DU TUBE
- 12) GUADAGNO VERDE
- GREEN GAIN
- GANANCIA VERDE
- GRÜN-VERSTÄRKUNGS-REGLER
- GAIN VERT

- 16) BOBINA PONTE
- BRIDGE COIL
- BOBINA PUENTE
- BRÜCKE
- BOBINE PONT
- 17) MODULO CG COMANDI E REGOLAZ.
- ADJUSTING MODULE
- MODULO CG REGULACION
- EINSTELL-EINHEIT
- MODULE DE REGLAGE
- 18) FREQUENZA VERTICALE
- VERTICAL HOLD
- FRECUENCIA VERTICAL
- VERTIKALE FREQUENZ
- FREQUENCE VERTICALE
- 19) AMPIEZZA ORIZZONTALE
- HORIZONTAL WIDTH
- AMPLITUD HORIZONTAL
- HORIZONTALE AMPLITUDEAMPLITUDE HORIZONTALE
- 20) AMPIEZZA VERTICALE
- VERTICAL HEIGHT
- AMPLITUD VERTICAL
- VERTIKALE HÖHE
- AMPLITUDE VERTICALE
- 21) FASE VERTICALE
- VERTICAL SHIFT
- FASE VERTICAL
- VERTIKALE VERSCHIEBUNG
- PHASE VERTICALE
- 22) FASE ORIZZONTALE
- HORIZONTAL SHIFT
- FASE HORIZONTAL
- HORIZONTALE VERSCHIEBUNG
- PHASE HORIZONTALE
- 23) FREQUENZA ORIZZONTALE
- HORIZONTAL HOLD
- FRECUENCIA HORIZONTAL
- HORIZONTALE FREQUENZ
- FREQUENCE HORIZONTALE
- 24) INGRESSO VIDEO/SINCRONISMI
- VIDEO/SYNC. INPUTENTRADA VIDEO/SINC.
- VIDEO UND SYNCHRONISATIONS EINGANG
- ENTREE SYNCHRO. VIDEO
- 25)CONTRASTO
- CONTRASTCONTRASTE
- KONTRAST
- CONTRASTE
- 26) COMMUTATORE PER SINC. POS/NEG.
- SYNC. POLARITY SWITCH
- CONMUTADOR SINCRONISMOS/NEG.
- SYNCHRONISATIONS UMSCHALTER POS./NEGCOMMUTATEUR POUR SYNCHRO. POS/NEG
- 27) REGOLAZIONE EST/OVEST
- PINCUSCHION ADJUSTMENT
- REGULACION ESTE/OESTEOST/WEST-REGLER
- REGLAGE DROITE/GAUCHE

13) INGRESSO ALIMENTAZIONE

- POWER SUPPLY
- FUENTE ALIMENTACION
- NETZTEIL
- ENTREE ALIMENTATION

14) REGOLAZIONE FUOCO

- FOCUS ADJUSTMENT
- AJUSTE FOCO
- FOCUS-REGLER
- REGLAGE FOCALISATION

15) REGOLAZIONE LUMINOSITÀ

- BRIGHTNESS ADJUSTMENT
- REGULACION BRILLO
- HELLIGKEITS-REGLER
- REGLAGE LUMINOSITE

28) MODULO KK CORREZIONE EST/OVEST

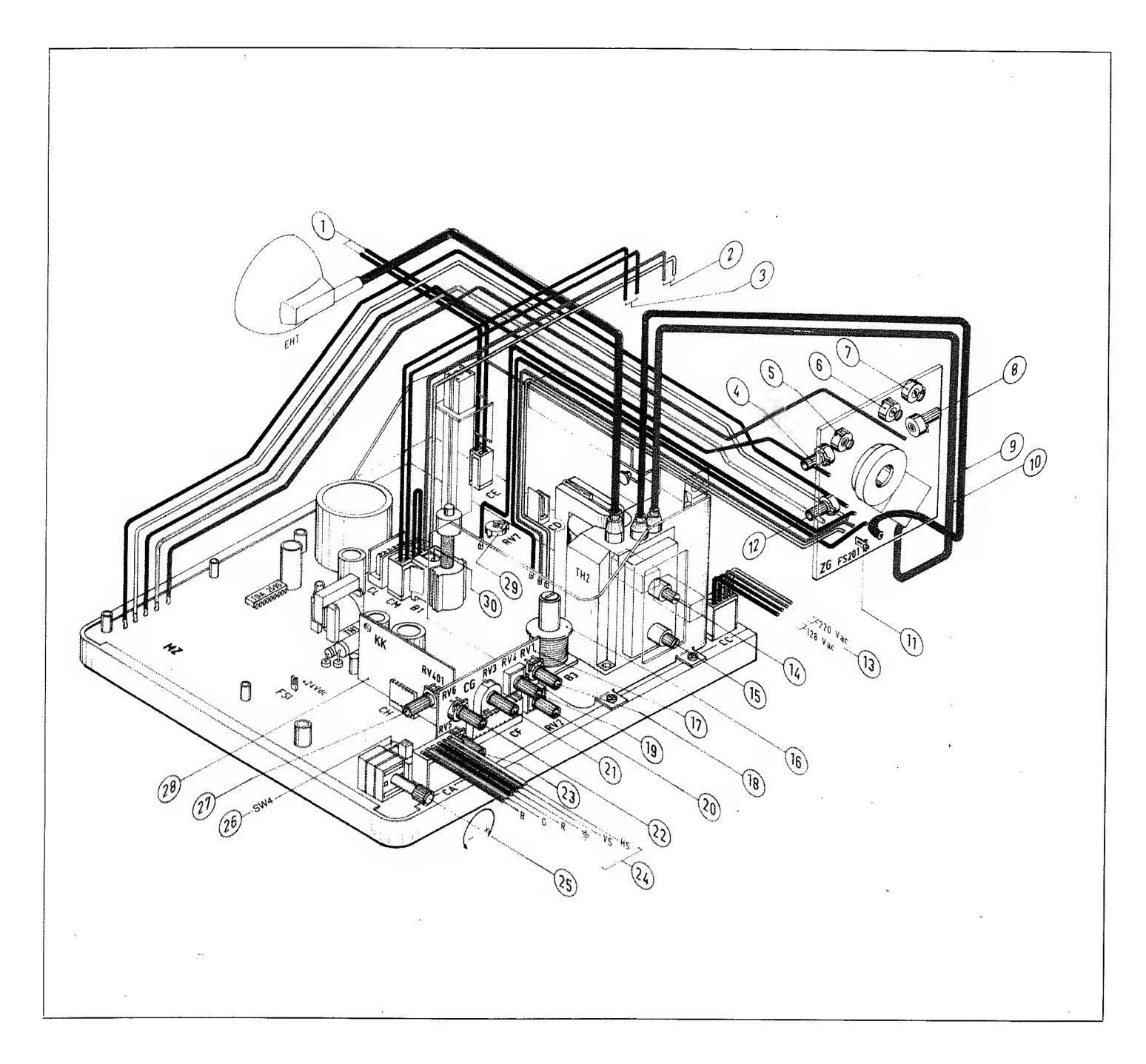
- KK PINCUSCHION MODULE
- MODULO KK CORRECCION ESTE/OESTE
- OST/WEST MODUL
- MODULE KK DE CORRECTION DROITE/GAUCHE

29) PRESELETTORE LUMINOSITÀ

- BRIGHTNESS PRESET
- PREREGULACION BRILLO
- HELLIGKEITSREGLER
- PRE-SELECTION LUMINOSITE

30) LINEARITÀ ORIZZONTALE

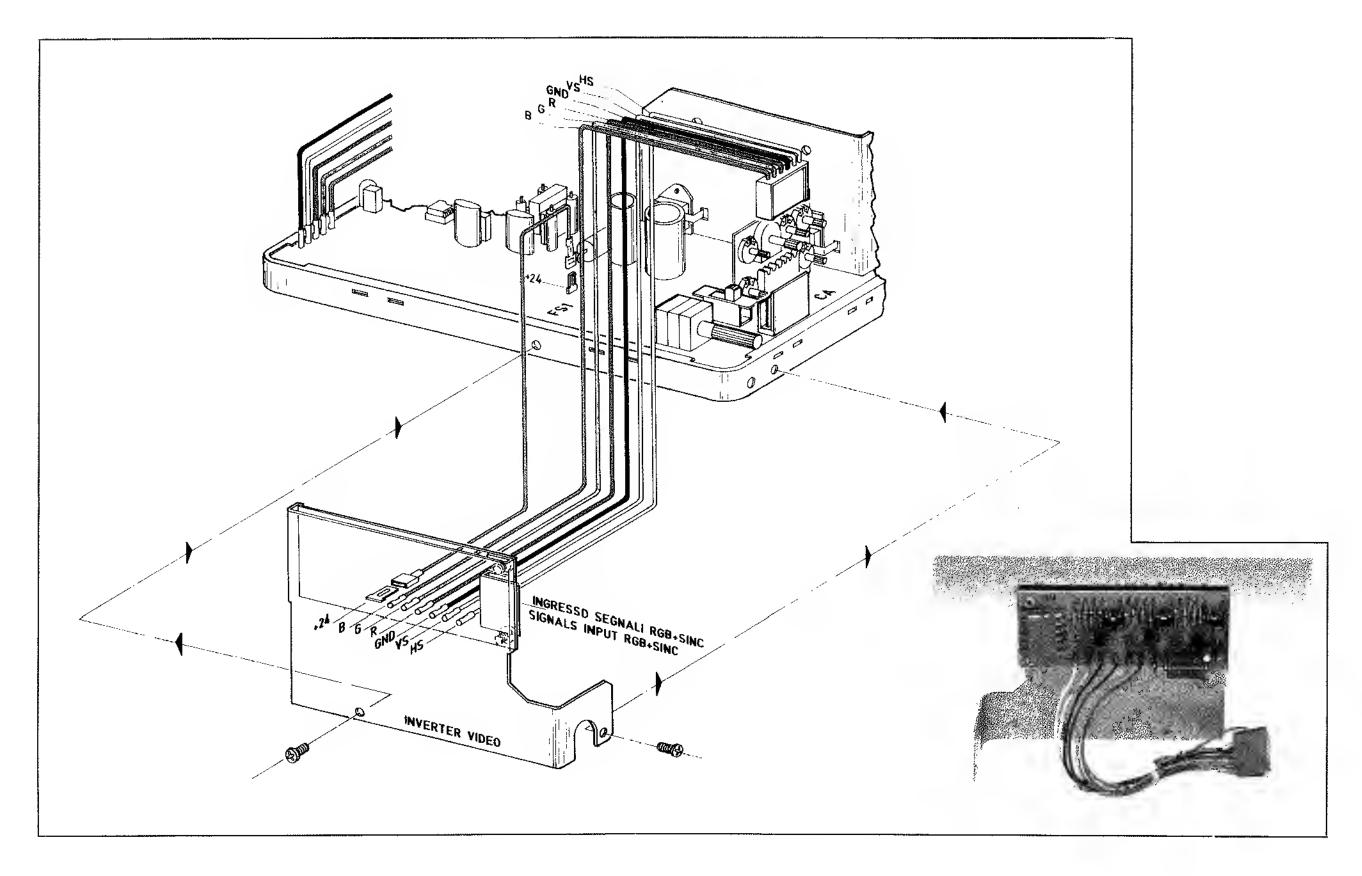
- --- HORIZONTAL LINEAR.
- LINEALIDAD HORIZONTAL
- HORIZONTALE LINEARITÄTSEINSTELLUNG
- LINEARITE HORIZONTALE

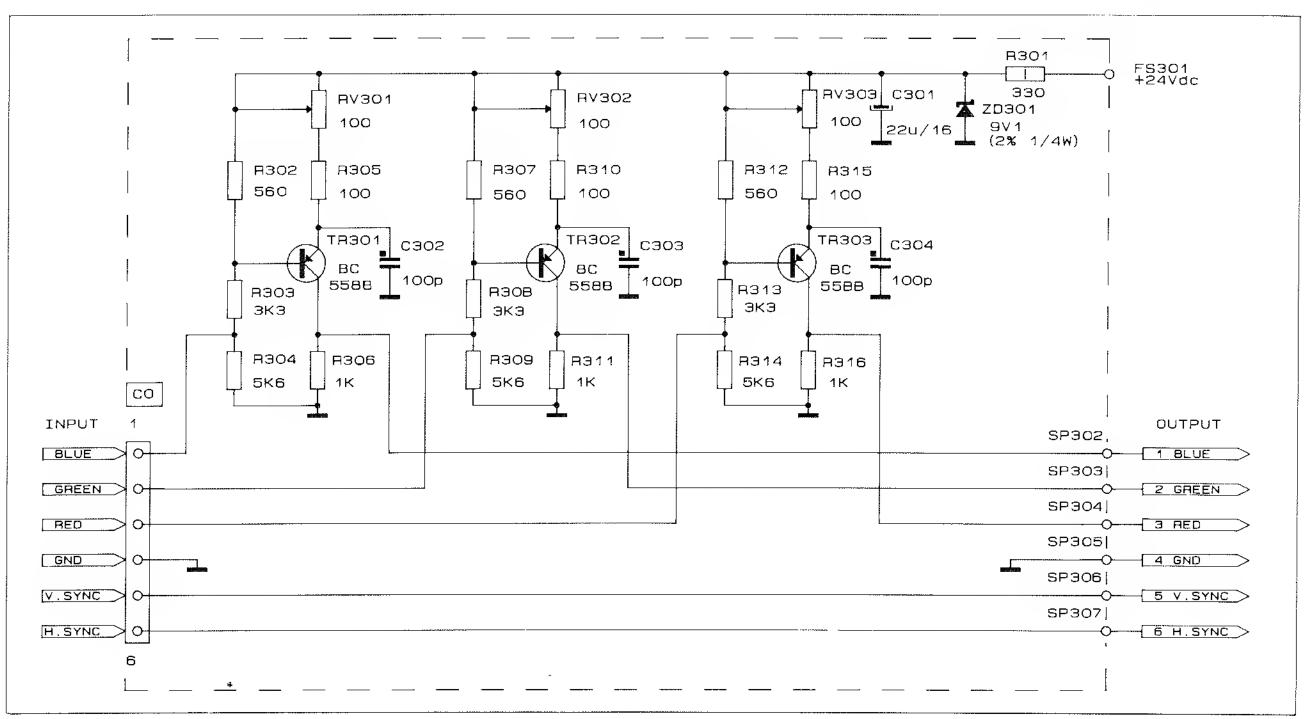


INVERTER VIDEO

Per permettere l'adattamento di logiche con segnale video negato al monitor MTC9110, l'HANTAREX ha studiato una scheda d'interfaccia applicabile direttamente sulla centina metallica dell'elettronica. La scheda è fornita delle istruzioni di montaggio, delle connessioni elettriche e dello schema. Per la richiesta fare riferimento al cod. 63000160 scheda «INVERTER-VIDEO».

To enable the MTC 9110 to be used with negative going input signals, HANTAREX has designed an interface board which mounts directly into the framework of the monitor. The board is supplied complete with circuit diagram, mounting instructions and connexions to the monitor. To order, quote part no. 63000160 Inverter Video.

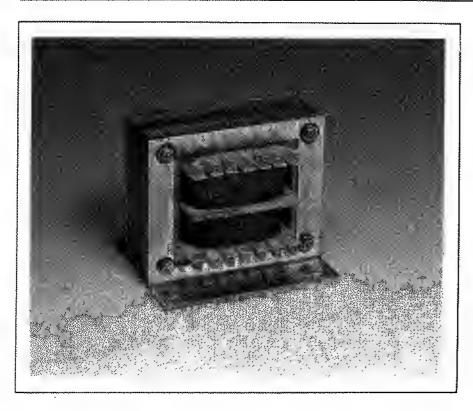




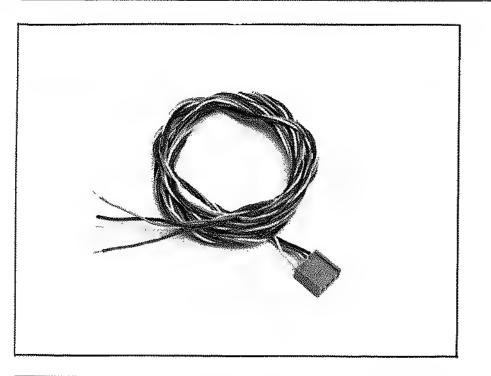
ACCESSORI ACCESSOIRES ZUBEHÖR ACCESORIOS ACCESSORIES



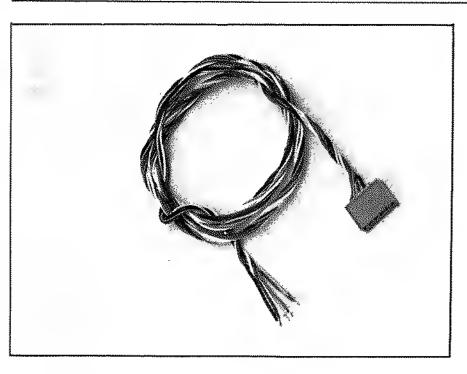
- Trasformatore di alimentazione monitor MTC9110 220/240 Vac / 128 Vac 150 W. (Per richiesta cod. 28070460).
- Isolating transformer for supplying monitor MTC9110 220/240 V a.c. / 128 V a.c. 150 W. To order, quote: cod. 28070460.
- Trenntransformator für die Stromversorgung des Monitors MTC9110 mit 220/240 V Eingang, 128 V / 150 W Ausgang. Bestell-Nr. 28070460.
- Transformador de alimentación monitor MTC9110 220/240 Vac / 128 Vac 150 W. (Para solicitud cod. 28070460).
- Transformateur d'alimentation pour moniteur MTC9110 220/240 V c.a. / 128 V c.a. 150 W. (Code 28070460).



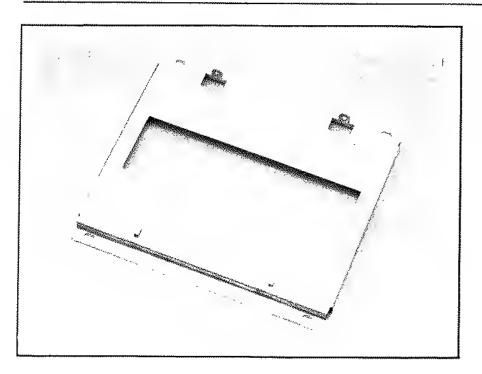
- Trasformatore di alimentazione monitor MTC9110 120/128 Vac 150 W. (Per richiesta cod. 28070440).
- Isolating transformer for supplying monitor MTC9110 120/128 V a.c. / 150 W. To order, quote: cod. 28070440.
- Trenntransformator f
 ür die Stromversorgung des Monitors MTC9110 mit 120/128 V Eingang, 128 V / 150 W Ausgang. Bestell-Nr. 28070440.
- Transformador de alimentación monitor MTC9110 120/128 Vac 150 W. (Para solicitud cod. 28070440).
- Transformateur d'alimentation pour moniteur MTC9110 120/128 V c.a. 150 W. (Code 28070440).



- Cablaggio ingresso alimentazione. Viene fornito unitamente al monitor. (Per ricambistica cod. 61000120).
- Input Power Lead. Supplied with each monitor.
 Spare part no. cod. 61000120.
- Verbindungskabel für Stromversorgung mit Anschlußstecker für Monitor MTC9110. Bestell-Nr. 61000120.
- Cable de entrada de alimentación. Viene incluido con el monitor. (Para recambio cod. 61000120).
- Câblage d'éntrée d'alimentation. Il est fourni avec le moniteur. (Pour pièces de rechange code 61000120).

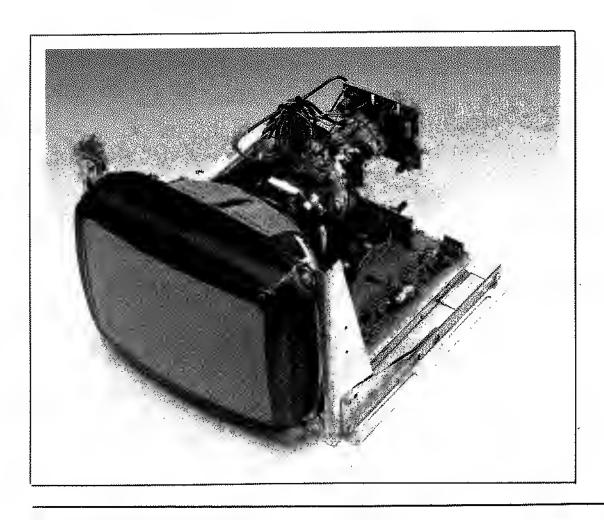


- Cablaggio ingresso segnali. Viene fornito unitamente al monitor. (Per ricambistica cod. 61000140).
- Input Signal Lead. Supplied with each monitor. Spare part no. cod. 61000140.
- Verbindungskabel RGB Signal mit Anschlußstecker für Monitor MTC9110. Bestell-Nr. 61000140.
- Cable de entrada de senales. Viene incluido con el monitor. (Para recambio cod. 61000140).
- Câblage d'éntrée des signaux. Il est fourni avec le moniteur. (Pour pièces de rechange code 61000140).



- Supporto metallico per MTC9110 per fissare l'elettronica al mobile nel caso debba essere disassemblata dal cinescopio. (Per richiesta cod. 50113370).
- Metal support for fixing electronic chassis to a case when the chassis is to be separated from the c.r.t. To order, quote cod. 50113370.
- Metallrahmen für MTC9110 zur Aufnahme von Chassis und der Bildröhre. Bestell-Nr. 50113370.
- Soporte metalico para el MTC9110 para fijar el circuito impreso al mueble, en el caso en que deba ser descollado del TRC. (Para solicitud cod. 50113370).
- Support metallique pour MTC9110 pour fixer l'electronique sur le meuble dans cas où elle devrait être desassemblée du tube image. (Code 50113370).

PRODOTTI COMPLEMENTARI - COMPLEMENTARY PRODUCTS



Monitor MTC9000 10" COD. 02191552

Video R.V.B. positivo analogico, sincronismi compositi,

separati, negati o positivi. Alimentazione: 128 Vac - 70 W.

Dimensioni: L \times H \times P mm 297 \times 250 \times 307.

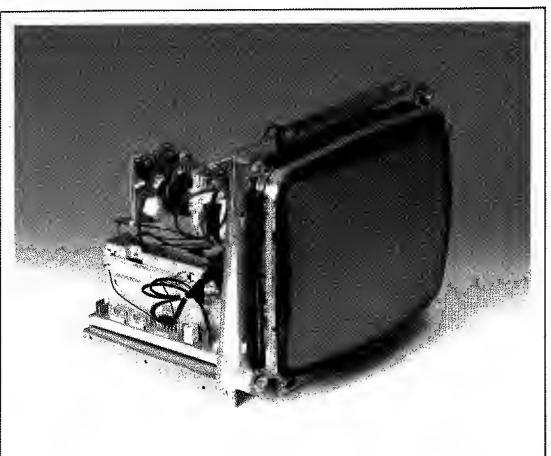
Monitor MTC9000 10" COD. 02191552

Video RGB, positive analogue, composite or separate sync.,

negative or positive.

Power: 128 V a.c., 70 W.

Dimensions: $L \times W \times D$: $297 \times 250 \times 307$ mm.



Monitor MTC9000 14" 90° COD. 02191535

Video R.V.B. positivo analogico, sincronismi compositi, separati negati o positivi.

Alimentazione 128 Vac - 100 W.

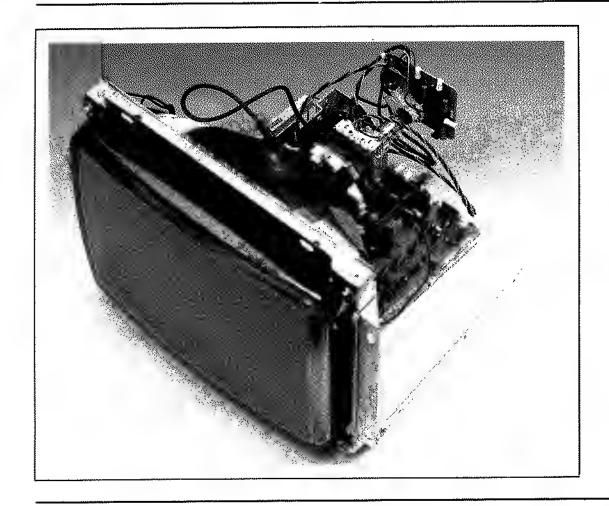
Dimensioni: L×H×P mm 372×312×352.

Monitor MTC9000 14" 90° COD. 02191535

Video RGB, positive analogue, composite or separate sync., negative or positive.

Power 128 Va.c., 100 W.

Dimensions: L \times W \times D: 372 \times 312 \times 352 mm.



Monitor MTC9000 15" F.S. COD. 02191870

Video R.V.B. positivo analogico, sincronismi compositi,

separati, negati o positivi.

Alimentazione: 128 Vac - 100 W. Cinescopio: Flat Full Square MR. Spazio fra le triadi 0,51 mm.

Dimensioni: L×H×P mm $400 \times 330 \times 360$.

Monitor MTC9000 15" F.S. COD. 02191870

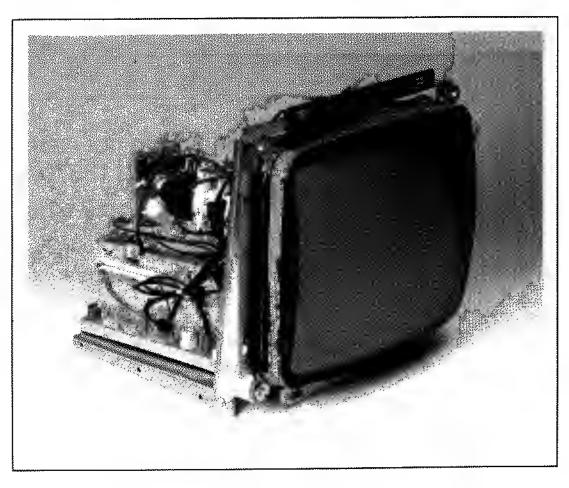
Video RGB, positive analogue, composite or separate sync.,

negative or positive.

Power: 128 V a.c., 100 W.

C.r.t. flat full square MR. Pixel spacing 0.51 mm.

Dimensions: $L \times W \times D$: $400 \times 330 \times 360$ mm.



Monitor MTC9000 16" 90° COD. 02191522

Video R.V.B. positivo analogico, sincronismi compositi,

separati negati o positivi.

Alimentazione 128 Vac - 100 W.

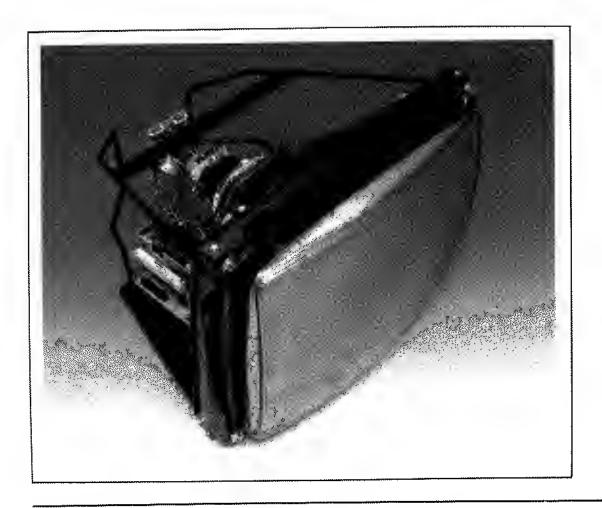
Dimensioni: L×H×P mm $424 \times 340 \times 380$.

Monitor MTC9000 16" 90° COD. 02191522

Video RGB, positive analogue, composite or separate sync.,

negative or positive. Power 128 Va.c., 100 W.

Dimensions: L \times W \times D: $424 \times 340 \times 380$ mm.



Monitor MTC9000 20" 90° COD. 02191278

Video R.V.B. positivo analogico, sincronismi compositi,

separati, negati o positivi.

Alimentazione: 128 Vac - 100 W.

Dimensioni: L×H×P mm 512×406×442.

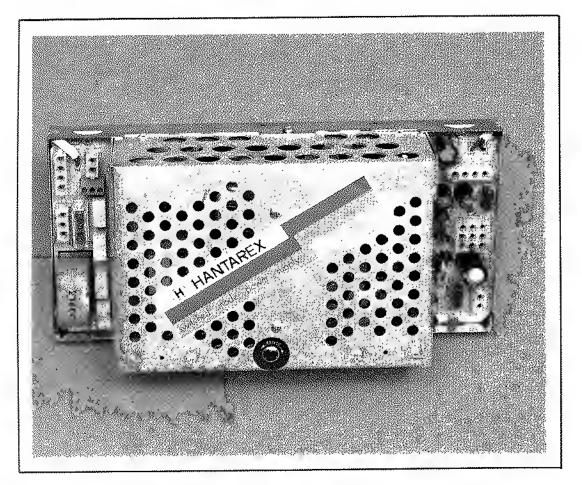
Monitor MTC9000 20" 90° COD. 02191278

Video RGB, positive analogue, composite or separate sync.,

negative or positive.

Power: 128 V a.c., 100 W.

Dimensions: L \times W \times D: 512 \times 406 \times 442 mm.



Alimentatore a commutazione US 250 COD. 63000131

Ingresso rete: 187 ÷ 264 Vac. Alimentazione monitor in d.c.

senza trasformatore di alimentazione.

Basse tensioni: 5 Vdc 10A / 12 Vdc 2A /

-5 Vdc 1A / -12 Vdc 1A.

Dimensioni: L×H×P mm 288×156×124.

Switched Mode Power Supply US 250 COD. 63000131

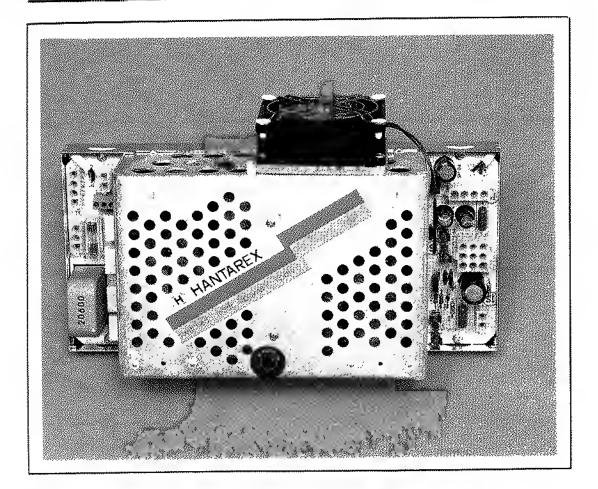
Mains input: 187 ÷ 264 V a.c. Monitor d.c.

supply without mains transformer.

Low tensions: 5 V d.c. 10A. 12 V d.c. 2A.

—5 V d.c. 1A. —12 V d.c. 1A.

Dimensions: L×W×D: 288×156×124 mm.



Alimentatore a commutazione US 300 Ventilato COD. 63000081

Ingresso rete: 187 ÷ 264 Vac. Alimentazione monitor in d.c.

senza trasformatore di alimentazione. Basse tensioni: 5 Vdc 15A / 12 Vdc 2A /

—5 Vdc 1A / —12 Vdc 1A.

Dimensioni: L×H×P mm 288×188×124.

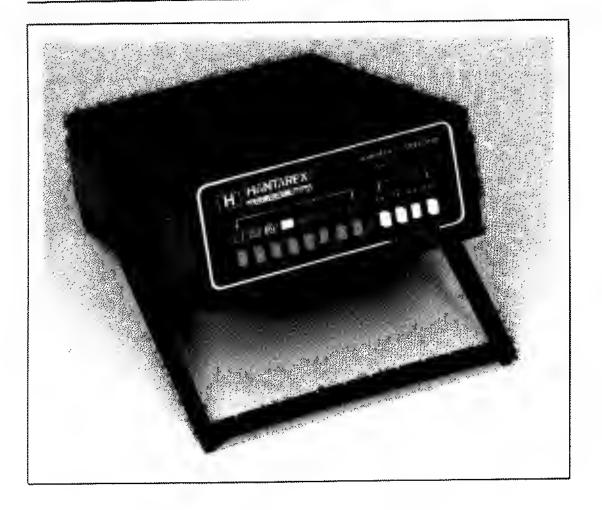
Switched Mode Power Supply US 300 ventilated COD. 63000081

Mains input: 187 ÷ 264 V a.c. supply without mains transformer.

Low tensions: 5 V d.c. 15A. 12 V d.c. 2A.

—5 V d.c. 1 A. —12 V d.c. 1A.

Dimensions: L×W×D: 288×188×124 mm.



Generatore di segnali R.V.B. e sincronismi MOD. K 190 G COD. 02190280

Utile per la messa a punto di monitors aventi un ingresso segnali R.V.B.

Commutatori frontali per la selezione delle varie immagini.

RGB Signal Generator with sync. MOD. K 190 G COD. 02190280

Invaluable for setting-up colour monitors with RGB input. Front panel switching for selecting a variety of images.



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